

## ABSTRACT

### CLOSED CYCLONE SYSTEM HAVING A FLOW RATE DISTRIBUTOR AND USE OF SAME

A distributor (9) for the equalization of flow rate of cyclones in closed cyclone systems installed in the interconnection of the cyclones of the disengager vessel of the gas-solid suspension of the fluid catalytic cracking (FCC) processes is described, that distributes the gases exiting the first stage cyclones so as to promote a desirable and uniform flow rate of said gases through said space, besides absorbing the relative movements between the cyclones caused by the differential thermal expansion. The distributor of the invention secures a homogeneous accommodation of the gas-solid suspension in a connecting pipe, allowing a uniform cyclone operation in the next stage, no matter the geometry of the riser-cyclone set or of the downer-cyclone set.